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Sequence Listing was accepted.

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Reviewer: Durreshwar Anjum

Timestamp: [year=2009; month=6; day=19; hr=13; min=46; sec=54; ms=439; ]

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Application No: 10575505 Version No: 1.0

**Input Set:****Output Set:**

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**Finished:** 2009-06-18 16:50:09.277  
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**Total Errors:** 0  
**No. of SeqIDs Defined:** 28  
**Actual SeqID Count:** 28

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W 402	Undefined organism found in <213> in SEQ ID (3)
W 402	Undefined organism found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
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W 402	Undefined organism found in <213> in SEQ ID (8)
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**Input Set:**

**Output Set:**

**Started:** 2009-06-18 16:50:06.573  
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W 213	Artificial or Unknown found in <213> in SEQ ID (25)
W 213	Artificial or Unknown found in <213> in SEQ ID (26) This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> Helmholtz-Institut fuer Infektionsforschung GmbH  
 Ferrer, Manuel  
 Chernikova, Tatjana  
 Golyshin, Peter  
 Timmis, Kenneth  
 Yakimov, Michail

<120> Transgenic organisms with lower growth temperatures

<130> FERRER ET AL-1

<140> 10575505

<141> 2009-06-18

<150> EP 03023032.0

<151> 2003-10-13

<160> 28

<170> PatentIn version 3.5

<210> 1

<211> 97

<212> PRT

<213> artificial sequence

<220>

<223> Cpn10 of Oleispira antarctica

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Glu Lys Pro Asn Gln Gly Val Val Ile Ser Val Gly Thr Gly Arg Ile  
 35 40 45

Leu Asp Asn Gly Ser Val Gln Ala Leu Ala Val Asn Glu Gly Asp Val  
 50 55 60

Val Val Phe Gly Lys Tyr Ser Gly Gln Asn Thr Ile Asp Ile Asp Gly  
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<212> PRT

<213> artificial sequence

<220>

<223> Cpn60 of *oleispira antarctica*

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35 40 45

Ile Thr Lys Asp Gly Val Ser Val Ala Arg Glu Ile Glu Leu Lys Asp  
50 55 60

Lys Phe Glu Asn Met Gly Ala Gln Met Val Lys Glu Val Ala Ser Gln  
65 70 75 80

Ala Asn Asp Gln Ala Gly Asp Gly Thr Thr Thr Ala Thr Val Leu Ala  
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Gln Ala Ile Ile Ser Glu Gly Leu Lys Ser Val Ala Ala Gly Met Asn  
100 105 110

Pro Met Asp Leu Lys Arg Gly Ile Asp Lys Ala Thr Ala Ala Val Val  
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Ala Ala Ile Lys Glu Gln Ala Gln Pro Cys Leu Asp Thr Lys Ala Ile  
130 135 140

Ala Gln Val Gly Thr Ile Ser Ala Asn Ala Asp Glu Thr Val Gly Arg  
145 150 155 160

Leu Ile Ala Glu Ala Met Glu Lys Val Gly Lys Glu Gly Val Ile Thr  
165 170 175

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Glu	Lys	Met	Thr	Val	Glu	Met	Glu	Asn	Pro	Leu	Ile	Leu	Leu	Val	Asp	210	215	220
Lys	Lys	Ile	Asp	Asn	Leu	Gln	Glu	Leu	Leu	Pro	Ile	Leu	Glu	Asn	Val	225	230	235
Ala	Lys	Ser	Gly	Arg	Pro	Leu	Leu	Ile	Val	Ala	Glu	Asp	Val	Glu	Gly	245	250	255
Gln	Ala	Leu	Ala	Thr	Leu	Val	Val	Asn	Asn	Leu	Arg	Gly	Thr	Phe	Lys	260	265	270
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Leu	Gly	Met	Ser	Leu	Glu	Thr	Ala	Asp	Pro	Ser	Ser	Leu	Gly	Thr	Ala	305	310	315
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Ile	Glu	Ser	Ser	Thr	Ser	Asp	Tyr	Asp	Ile	Glu	Lys	Leu	Gln	Glu	Arg	355	360	365
Val	Ala	Lys	Leu	Ala	Gly	Gly	Val	Ala	Val	Ile	Lys	Val	Gly	Ala	Gly	370	375	380
Ser	Glu	Met	Glu	Met	Lys	Glu	Lys	Lys	Asp	Arg	Val	Asp	Asp	Ala	Leu	385	390	395

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Val Ala Leu Ile Arg Ala Leu Ser Ser Val Thr Val Val Gly Asp Asn  
420 425 430

Glu Asp Gln Asn Val Gly Ile Ala Leu Ala Leu Arg Ala Met Glu Ala  
435 440 445

Pro Ile Arg Gln Ile Ala Gly Asn Ala Gly Ala Glu Gly Ser Val Val  
450 455 460

Val Asp Lys Val Lys Ser Gly Thr Gly Ser Phe Gly Phe Asn Ala Ser  
465 470 475 480

Thr Gly Glu Tyr Gly Asp Met Ile Ala Met Gly Ile Leu Asp Pro Ala  
485 490 495

Lys Val Thr Arg Ser Ser Leu Gln Ala Ala Ala Ser Ile Ala Gly Leu  
500 505 510

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<213> *Oleispira antarctica*

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 <212> PRT  
 <213> *Oleispira antarctica*

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Leu Pro Thr Leu Ile Met Trp Gly Lys Glu Asp Arg Val Leu Asp Val		
275	280	285
Ser Ala Ala Ala Ala Phe Lys Lys Ile Ile Pro Gln Ala Thr Val His		
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Ile Phe Pro Glu Val Gly His Leu Pro Met Val Glu Ile Pro Ser Glu		
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<211> 3939

<212> DNA

<213> artificial sequence

<220>

<223> DNA fragment from plasmid pBK1Est coding for esterase of  
Oleispira antarctica

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